

CLAIMS

1. A natural rubber which is obtained by a deproteinizing treatment of a natural rubber latex and has a total nitrogen content adjusted in a range
5 of 0.12 to 0.30% by weight.

2. A natural rubber according to Claim 1, which is obtained by coagulating the natural rubber latex obtained after the deproteinizing treatment without separation of non-rubber components by centrifugation
10 and drying a product of the coagulation.

3. A natural rubber according to any one of Claims 1 and 2, which has a Mooney viscosity (ML_{1+4}) and a stress relaxation time (T_{80}) satisfying following equations I and II:

15 $40 \leq ML_{1+4} \leq 100$... I

$T_{80} < 0.0035 \exp(ML_{1+4}/8.2) + 20$... II

wherein ML_{1+4} is a Mooney viscosity measured at 100°C and T_{80} is a period of time (second) from a time immediately after the measurement of ML_{1+4} when rotation of a rotor is stopped to a time when ML_{1+4} has
20 decreased by 80%.

4. A rubber composition which comprises a natural rubber described in any one of Claims 1 to 3 and a filler.

25 5. A rubber composition according to Claim 4, which comprises as the filler 20 to 100 parts by weight of carbon black having a specific surface

area by nitrogen adsorption of 80 m²/g or greater or a DBP absorption of 110 ml/100 g or smaller per 100 parts by weight of a rubber component comprising the natural rubber.

5 6. A rubber composition according to Claim 4, which comprises as the filler 20 to 80 parts by weight of silica per 100 parts by weight of a rubber component comprising the natural rubber.

7. A rubber composition according to any one of Claims 4 to 6, which
10 comprises 5% by weight or more of the natural rubber based on an entire amount of a rubber component.

8. A process for producing a natural rubber which comprises partially deproteinizing a natural rubber latex in a step of deproteinizing the
15 natural rubber latex so that a total nitrogen content in a solid component is adjusted in a range of 0.12 to 0.30, coagulating an obtained natural rubber latex without separation of non-rubber components and drying a product of the coagulation.

20 9. A rubber composition for tire case members which comprises a natural rubber described in any one of Claims 1 to 3.

10. A rubber composition for tire case members according to Claim 9, wherein the tire case member is an inner member of a tire.

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11. A tire case member which is obtained by using a rubber composition

described in any one of Claims 9 and 10.

12. A tire case member according to Claim 11, wherein the rubber composition is used as a skim stock for a belt or a carcass.

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13. A rubber composition for tire treads which comprises a rubber component comprising a natural rubber described in any one of Claims 1 to 3 and a filler.

10 14. A rubber composition for tire treads according to Claim 13, wherein the filler is at least one filler selected from carbon black and silica.

15. A tire tread which uses a rubber composition described in any one of Claims 7, 13 and 14.

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16. A pneumatic tire which uses a rubber composition described in Claim 5 for a constituting member of the tire.

17. A pneumatic tire which uses a rubber composition described in Claim
20 6 for a constituting member of the tire.

18. A pneumatic tire which comprises a tire case member described in any one of Claims 11 and 12.

25 19. A pneumatic tire which comprises a tire tread described in Claim 15.